

**Castle Metals®**

A. M. Castle & Co.

**BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE**

Page 1 of 1

No de Formulaire d'Emballage / Pack Slip No:2316710

Expédié de / Ship From: A. M. Castle & Co. Cleveland 26800 Miles Road Bedford Heights, OH 44146		Vendu à / Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Expédié à / Ship To: METCOR INC. 560 BOUL. ARTHUR-SAUVE SAINT-EUSTACHE, QC J7R 5A8 CA		Livré à / Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA					
Date d'expédition / Date Shipped 16-FEB-2016		F.O.B. ORIGIN		Modalités de transport / Freight Terms Prepaid		Transporteur / Carrier CASTLE NETWORK		No du Bon de connaissance / BOL No 2327334		N° de livraison / Delivery No 120339484	
Détails d'expédition / Shipment Details											
N° de commande / Order No 4240719		N° de ligne Line No 1		N° d'article / Item No 14974.MO		Description 1.3750.RD.17CR-4NI.STAINLESS.CF.SOL.TR.COND A.132.0000-156.0000 CUT TO 153 IN () -GUT IN 4TH'S SPECIFICATIONS: AMS 5643 Email P/s and certs to: clavoie@dartaero.com					
N° de bon de commande / Purchase Order No 31242		N° de pièces / Part Number		N° de pièces / Part Number		Qté commandée / Ordered Qty 1.00 PCS		Qté Facturée / Invoice Qty 12.7500 FT			
Détails / Details		ATTN TOR: SHIP TO METCOR Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS									
Usine / Mill NORTH AMERICAN STAINLESS		No de coulee / Heat Number W8K0		Code mec / Mech Id		Qty or PCS 1		Largeur/ Width (IN)		Longueur/ Length (IN)	
										Qté expédiée / Shipped Qty (LBS) 64.3875	
<small>Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel déficient sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit. We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit. Ce matériel a été reçu et inspecté par Reviewed by Authorized Castle Metals Representative.</small>											
								Date 2/29/2016		Name A. M. Castle & Co.	



162129



NORTH AMERICAN
STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 114899 23 Mail To: A.M. CASTLE AND COMPANY
1420 KENSINGTON ROAD-SUITE 220
OAK BROOK IL 60523
Customer: 0032 005
NAS Order: LP 40580 1
Your Order: 356359-1
Ship To: A.M. CASTLE AND COMPANY
26800 MILES ROAD
BEDFORD HEIGHTS OH 44146
Date: 11/16/2015 Page: 1 Of 1
Steel: 530(17-4)
Finish: Cold Finish
Dia./Thk: 1.3750 in
Leg Length: 144.00 in
Corrosion:

Item Code: 14974

PRODUCT DESCRIPTION:

AMS 2303P,
Round Bar, Annealed, Smooth Turned, Cold Finished
UNS S17400, EN 10204 3.1, ASTM A484/11, AMS 2303R
ASTM A564/13, ASME B8564-07, ASTM F899/11(CHEM ONLY)
AMS 5643T, MACRO OK, SOL. ANN. 6 1900P FOR 1 HR MIN. AIR COOLED
H900 MECH. PROPERTIES ARE CAPABILITY ONLY*

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 252.225-7009 EU DIRECTIVE
2011/65/EU, ROHS. EAP+AOD+CC. NO WELD REPAIR. MELTED AND MPQ
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

DAS
14
9.00

1603/01

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BH56098	698	BH56121	1592						

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/08

Heat	Supplier #	CM	C %	CB %	CO %	CR %	CU %	MO %	NI %	N %	PT %	P %
W8K0		US	.011	.165	.06	15.13	3.12	.78	.08	.024	4.29	.024
			S %	SI %	TA %	TI %						
			.0181	.59	.0060	.0020						

MECHANICAL PROPERTIES

Id	HB	Grain	Ferrite	TS-900CAP	YS-900CAP	EL-900CAP	RA-900CAP	RC-900CAP	FREQ.	SEV.
		No.	%	KSI	KSI	% 4D	%	No.	No.	No.
BH56098	R L	321.0	7.0	.40	202.47	182.32	13.13	44.29	42.0	.08
BH56121	R L	321.0	7.0	.40	202.47	182.32	13.13	44.29	42.0	.04

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical
Dept. Mgr.

ABHJEST BHAVE

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M174 PH906 R1.375
DATE: 16/03/01

MATERIAL CERT REC'D: 400
QUANTITY RECEIVED: 12.750'
QUANTITY INSPECTED: 12.750'
QUANTITY REJECTED:

PO / BATCH NO: 31242/134368
THICKNESS ORDERED: R 1.375
THICKNESS RECEIVED: R 1.375
SHEET SIZE ORDERED:
SHEET SIZE RECEIVED:

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRAIN DIRECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT M# ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL	SIZE OF TEST SAMPLE	HARDNESS / DUREMETER READING	testers located in the Quality Office	
HRC	HRB	DUR A	DUR D	

CC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: _____
DATE: 16/03/01
SIGNED OFF BY: _____
DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO31242

Purchase Order Date 2/3/2016
PO Print Date 2/4/2016

E-MAILED
FEB 05 2016

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Order From :
METUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

Contact Name Chantal Laviole
Vendor Phone
Ship To Contact 10127-2607
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer
Customer POID
Customer Tax #
Terms
Currency
FOB
Destination-Collect

Line	Reference	Description/	Reg Date/	CD	Reg Qty/	Unit of	Measure	PO Unit Price	Extended
Nbr	Vendor Part Number	Line Comments	Taxable						Price

1	M7075T6B1.500X1.500	7075 T6 BAR 1.500 x 1.500	2/18/2016		24.00			\$25.50	\$612.00
		MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE	Yes						
		2/18/2016							

2	M7075T6B6.000X1.000	7075-T6 BAR 6.000" X 1.000"	2/18/2016		12.00			\$48.78	\$585.36
		MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE	Yes						
		2/18/2016							

Line Total: \$585.36

1641211
57

Note:

2/4/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO31242

Purchase Order Date 2/3/2016
PO Print Date 2/4/2016

Page Number 2 of 3

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone

Ship To Contact
Ship To Phone
Ship Via:
Ship Acct:

Yours pld

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB Destination-Collect

3 M174PH-H900R1.375

17-4 SS H900 ROUND
BAR 1.375

2/18/2016
Yes

12.00

\$21.22

\$254.64

16/2/29
54

NOTE:
PLEASE SHIP ALL MATERIAL TO METCOR INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

4 M7075T73B2.500X03.25
7075-T73 Bar 2.50 x 3.25
2/18/2016
Yes

6.00

\$69.00

\$414.00

Line Total:

\$254.64

Line Total:

\$414.00

MATERIAL: 7075-T73 OR 7075-T7351/T73510/T73511
BAR AS PER AMS-QQ-A-200/11 PR AMS-QQ-A-225/9
OR AMS 4124 OR AMS-QQ-A-250/12 AMS 4078

Note:

2/4/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO31242
Purchase Order Date 2/3/2016
PO Print Date 2/4/2016
Page Number 3 of 3

Order From : VU-MET002
METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W 0E9
CANADA
Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone
Ship To Contact
Ship To Phone
Ship Via:
Ship Acct:
Buyer
Customer POID
Customer Tax #
Terms
Currency
FOB
Destination-Collect

5	M7075T6B5.000X0.375	7075-T6 BAR 5.000" X 0.375"	2/18/2016	Yes	24.00	\$20.40	\$489.60
MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE							

6	71401-45	PROCUREMENT QUALITY CLAUSES	2/18/2016	No	1.00	\$0.00	\$489.60
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents							

Line Total:	\$0.00
PO Total:	\$2,355.60

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2 Change Date: 2/4/2016

Purchase Order Receipt Listing

Page 1 of 1

Wednesday, March 02, 2016 11:32:21 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO31247 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

[illegible]

Recu de livraison

Delivery Receipt

BON DE TRAVAIL	Order	308718
EXPÉDITEUR	Shipper ID	1
BON D'EXPÉDITION	Shipper	108920

EXPÉDITION COMPLÈTE / Shipped Complete

LIVRÉ À / Shipped To

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053



CLIENT / Customer 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

560 BOUL. ARTHUR-SAUVE
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

COMMANDE DU CLIENT	Customer PO	BON DE LIVRAISON DU CLIENT	TYPE DE MATÉRIEL	DATE DE LA COMMANDE	Carrier
31247		17-4PH		2016/2/18	fed
QUANTITÉ	No. PIÈCE	NOM DE LA PIÈCE	DESCRIPTION DE LA PIÈCE	POIDS	Weight
4	71425-30	(4) BARS	71425-30	63,88	
Quantity	Part No.	Part Name	Part Description		

1 NIL

TYPE DE CONTENEUR # DE CONTENEURS # Of Containers Container Type

1 NIL

CERTIFICAT

EMPAQUETAGE	Packing
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QUANTITÉ EXPÉDIÉE / Quantity Shipped: 4

POIDS EXPÉDIÉ / Weight Shipped: 63,88

QUANTITÉ RESTANTE / Quantity Remaining: 0

POIDS RESTANT / Weight Remaining: 0,00

CERTIFICAT

QUANTITÉ EXPÉDIÉE / Quantity Shipped: 4

POIDS EXPÉDIÉ / Weight Shipped: 63,88

Signature: Date:

EXPÉDIÉ LE / Shipped On: 2016/02/19

F-050-06 Rev. B

METCOR INC.

560 BOUL. ARTHUR-SAUVE, ST-EUSTACHE, QC, J7R 5A8

Tél: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ A / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

BON DE TRAVAIL	308718
CHARGEMENT	1

Rapport d'Inspection
Inspection Report

COMMANDE DU CLIENT	BON DE LIVRAISON DU CLIENT	MATÉRIEL	MÂTRE D'OEUVRE	PROGRAM
customer po	customer shipper no.	material	prime contractor	
31247		17-4PH		
SPÉCIFICATIONS DU PROCÉDÉ processing specifications DAS 14 9-09 16/03/01				
AGE HARDEN CONDITION H 800 SAE AMS 2759/3 REV.F				
EXIGENCE / requirement SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed RESULTATS DE TESTS / results				
HARDNESS 40 - 47 HRC 4 43 - 44 HRC				

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description	1 NIL 71425-30 (4) BARS 71425-30
4	63.88		

COMMENTAIRES / comments

APPROUVÉ par / Approved by:

METCOR

DATE: 2016-02-19

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

BON DE TRAVAIL	308718
CHARGEMENT	1

Detailed Certificate of Compliance
Certificat de Conformité Détaillé

CLIENT / customer 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY
ON K6A 1K7
LIVRE A / shipped to:
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY
ON K6A 1K7

COMMANDE DU CLIENT	customer po	31247
BON DE LIVRAISON DU CLIENT	customer shipper no.	
MATÉRIEL	material	17-4PH
MAÎTRE D'OEUVRE	prime contractor	
PROGRAM		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900

SAE AMS 2759/3 REV.F

EXIGENCE / requirement	SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	43 - 44 HRC

QUANTITÉ	quantity	4
POIDS	weight	63.88
DESCRIPTION DES PIÈCES	parts description	71425-30 (4) BARS 71425-30 1 NIL

COMMENTAIRES / comments

AGE HARDEN 900F, 1 HR

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec AMS2759 et AMS 2750. Le TT a été fait tel que requis par AMS2759 et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été faite par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec AMS2759 et le bon de commande et le matériel rencontre les exigences spécifiées.

Heat treatment (HT) was performed with equipment that meets the requirements of AMS2759 & AMS2750. All HT operations were in compliance with AMS2759 and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with AMS2759 and the purchase order and was found to meet the requirements.

APPROUVÉ par / Approved by:

Isabel Otero
QA Technician

DATE: 2016-02-24



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO31247

Purchase Order Date 2/3/2016 3:14:33 PM
PO Print Date 3/2/2016

Order From : METCOR INC.
560 BOUL. ARTHUR SAUVE
SAINT-EUSTACHE, QC J7R 5A8
CANADA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Customer POID	10127-2607
Ship To Contact	Customer Tax #	Net 30
Ship To Phone	Terms	CAD
Ship Via:	Currency	FCA - (Free Carrier)
Ship Acct:	FOB	

Line	Reference	Description/	Reg Date/	CD	Reg Qty/	Unit of	Measure	Extended
Nbr	Vendor Part Number	Mfg ID	Taxable					Price
Line Comments								
Delivery Comments								

1	71425-30	HEAT TREAT MATERIAL TO H900	3/2/2016		1.00	Each		\$222.00
17-4 PH ROUND BAR 1.375" SENT FROM METAUX								
CASTLE P/O:31242								
FINISH:								
HEAT TREAT TO COND H900								
FTY IN EXCESS OF 170KSI								
FTU IN EXCESS OF 190KSI								
PER AMS2759/3								
DETAIL C OF C REQUIRED								
PLEASE ADVISE PRICE \$\$\$\$\$\$ FOR LOT								

2816103102

Line Total: \$222.00

Note:

3/2/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO31247

Purchase Order Date 2/3/2016 3:14:33 PM
PO Print Date 3/2/2016

Order From :

METCOR INC.
560 BOUL. ARTHUR SAUVE
SAINT-EUSTACHE, QC J7R 5A8
CANADA

Ship To :

DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

450 473 1884

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

TST Overland

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

PROCUREMENT QUALITY CLAUSES

2/26/2016 No

- Procurement Quality Clauses
- A005 right of entry
- A012 chemical and physical test report
- A020 non-destructive test/inspection identification
- A021 dart aerospace processing
- A024 process certifications
- A026 certification of material conformance

Line Total:

\$0.00

PO Total:

\$222.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.